Parvati Jayakumar

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Skills

- **Programming**: Python, R, MATLAB, Shell, C/C++
- **Math**: Probability and Statistics, Linear Algebra, Calculus
- **Data Visualization**: Tableau, (Python libraries: Matplotlib, Plotly, Seaborn)
- **Frameworks and Libraries**: NumPy, Pandas, scikit-learn, TensorFlow, PyTorch, Fast API, Streamlit
- **Other Tools**: SQL, Azure Cloud services (Databricks, Machine Learning, Docker, Kubernetes), AWS Cloud Services, Git, HuggingFace, LlamaIndex

Education

University of Washington, Seattle **September 2023 - March 2025 (Present)**
MS | *Data Science*

Indian Institute of Information Technology Dharwad **August 2018 - August 2022**
B. Tech. | *Electronics and Communication* Grade: 9.4/10

Work Experience

Graduate Research Assistant **February 2024 - Present**
UW Laboratory for Auditory Neuroscience and Development Seattle, WA, US

Clinical Data Analyst **November 2021 - June 2023**
MiiCare London, UK

- Analyzed health data for older adults and individuals with disabilities, enabling personalized care improvements through concise reports and visualizations; also developed algorithms for early detection of behavioral shifts, leading to a significant 29% rise in customer engagement.
- Owned the development of MiiVoice, a user-centric MVP utilizing voice analysis to predict and analyze mental health conditions.
- Owned Natural Language Processing projects (intuition prediction, chatbot) within the company.
- Developed and evaluated ML models for classifying gait patterns based on acoustic data (BSN 2023, arXiv).
- Worked in an agile environment to ensure streamlined project development.

Summer Intern **May 2019 - July 2019**
Indian Institute of Science Bengaluru, India

- Collaborated on a facial recognition project utilizing the Facenet model in PyTorch (FaceNet-GitHub).

Personal Projects

Explore trends in the US homelessness rates University of Washington
Python, Tableau

- Developed a tool providing visual insights into US Metropolitan Statistical Areas' homelessness trends since 2007, empowering stakeholders to address challenges and allocate resources effectively (GitHub-reference).

Obesity Research and Lifestyle Recommendation Tool University of Washington
Python, Streamlit

- Developed Live Lite, a recommendation tool for obesity research and lifestyle guidance, enabling healthier choices through analysis of obesity trends and lifestyle habits (GitHub-reference).

Achievements

- Institute Gold Medal and Department Gold Medal for Academic Excellence (B.Tech, IIIT Dharwad, 2022).
- Top 200 out of 36,500+ applicants chosen for Microsoft's Azure Machine Learning scholarship by Udacity.
- Co-authored papers published in reputable sources: BSN 2023, TENCON 2022.